

## **Tasks**

Below are listed the specific tasks that will be included in each of the proposed projects.

### **City of Firebaugh Well # 7 Replacement Project**

The proposed well replacement project is a standalone project and is not reliant or attached to any multi-phased complex. Upon construction of the well and surrounding site, the project will be fully functional and serviceable to the community of Firebaugh.

#### **City of Firebaugh Well # 7 Replacement**

*Budget Category (a): Direct Project Administration Costs*

#### **Task 1: Administration**

The City of Firebaugh will be the lead agency in providing administrative and operational support to complete the Replacement Well project. Mr. Jose A Ramirez, City Manager, has extensive experience throughout this career in the management of grant funding. Additionally, the City retains the Adams Ashby Group as their primary grant consultant, and has worked with their staff for over 5 years. The Adams Ashby Group staff has managed over \$50 million dollars throughout their community development careers and offer an operational and administrative capacity that will assist the City in ensuring a successful project.

Deliverables: Preparation of invoices, coordination between City, State, and contractor, contract set up, public information file, and other deliverables as required.

#### **Task 2: Labor Compliance Program**

As with all state and federal funding agencies, some degree of labor compliance is required. The City recognizes the importance of monitoring all labor standards and how this can affect project costs. The City will conduct a pre-bid conference to provide an overview of expect labor compliance, review all payrolls and statements before submission, prepare semi-annual reports for agency review, and conduct a final wage compliance report upon completion of the project.

Deliverable: Submission of Labor Compliance Program

#### **Task 3: Reporting**

The City will ensure that all necessary and required reporting is completed in a timely manner. City staff possesses the knowledge in all facets of reporting that is required

when dealing with state funding sources. All quarterly, annual, and final reports will be submitted to the agency by the requested date and will provide a complete overview of project progress and anticipated completion.

Deliverables: Submission of quarterly, annual and final reports as specified in the Grant Agreement

*Budget Category (b): Land Purchase / Easement*

No land acquisition or easements are applicable, as the City owns the project site in fee simple.

*Budget Category (c): Planning/Design/Engineering/Environmental Documentation*

**Task 4: Pre-Design**

Includes drilling of hammer casing test hole; identification of alluvium zones for well screens; and soil sample collection.

Deliverable: Identification and confirmation of new well site.

**Task 5: Well Design**

Design well based on data gathered during test drilling and pre-design, including size, type and placement of well screens.

Deliverables: Engineering Plans and Specifications for the well will be completed.

**Task 6: Site Improvements Design**

Design pump/motor, mechanical and electrical systems, security fencing, and access.

Deliverables: Engineering Plans and Specifications for the project site will be completed.

**Task 7: Environmental Documentation**

File all required documentation, including statutory exemption, conduct water source assessment

Deliverables: Approved and adopted CEQA documentation

*Budget Category (d): Construction/Implementation*

### **Task 8: Construction Contracting**

Upon design completion and approval, City staff will develop and circulate a Request for Proposal to potential bidders. The RFP will be sent to known contractors in the area, as well as published in the local newspapers. A pre-construction bid conference will be held as well and will outline project logistics, including required labor standards for the project. Staff and City Council will review all bids and will award the construction contract approximately 30 days from the bid opening.

Deliverables: Request for Proposal; pre-bid contractors meeting; evaluation of bids; award contract.

### **Task 9: Construct Well**

Drill Borehole and install well casing, gravel envelop, and other well appurtenances. Develop well by swabbing and pumping. Address RWQCB and discharge requirements. Test pump well to size pump and motor, and determine water quality parameters.

Deliverable: Well construction and installation complete.

### **Task 10: Site Improvements**

Construct site improvements for well, including but not limited to, pump, motor, piping, control valves, electrical systems, SCADA systems, fencing, etc.

Deliverable: Site improvements complete.

*Budget Category (e): Construction Administration*

### **Task 11: Construction Administration**

Ensure funds are used appropriately, scope of work is followed at all times, project schedules and timelines are met, coordinate change orders and disputes, ensure project quality and efficiency, and more.

Deliverables: Overall project administration.

## **City of San Joaquin Water Meter Installation Project**

*Budget Category (a): Direct Project Administration Costs*

### **Task 1 – Administration:**

- *Summary* - Correspondence with grant administration personnel, preparation of invoices and supporting documentation, coordination with partner agencies/organizations on grant requirements and reporting.
- *Status* – Not started
- *Deliverables* – Invoices and other documentation as required

### **Task 2 – Reporting:**

- *Summary* - Preparation and submission of quarterly, annual and final reports as specified in the Grant Agreement.
- *Status* – Not started
- *Deliverables* – Progress reports at intervals specified in Grant Agreement.

*Budget Category (c): Planning/Design/Engineering/Environmental Documentation*

### **Task 3 – Environmental Documentation:**

- *Summary* - Preparation of project CEQA/NEPA documentation. Since meters will be installed in existing City roadway Right-of-Way, and scope of construction is fairly limited, it is anticipated that the document will be a Mitigated Negative Declaration (MND) with a Finding of No Significant Impact (FONSI).
- *Status* – Not started.
- *Deliverables* – Approved and adopted CEQA/NEPA documentation.

### **Task 4 – Final Design:**

- *Summary* – Preparation of 90% and Final Construction Contract Documents including plans, specifications and Engineer's Estimate (PS&E) for the construction work.
- *Status* – Not started.
- *Deliverables* – 90% and Final PS&E packages.

*Budget Category (d): Construction/Implementation*

### **Task 5 – Construction Contracting:**

- *Summary* – Advertising the project for competitive bidding, reviewing and evaluating the bids, providing the City Council with a Bid Award recommendation and execution of the Construction Contract.

- *Status* – Not started
- *Deliverables* – Advertisement for Bids, pre-bid contractors meeting, bid award recommendation, executed contract.

#### **Task 7 – Construction:**

- *Summary* – This project will install water meters on 640 existing City residential service lines, establish an electronic meter reading network, and upgrade the City's utility billing software. The City of San Joaquin's construction standards for water meter and service construction will be implemented into the project plans and specifications, and the work will be in accordance with Fresno County Public Health standards.

*Budget Category (f): Construction Administration*

#### **Task 8 – Construction Administration:**

- *Summary* – Project construction inspection, labor compliance enforcement, review and processing of progress payment requests and change orders, preparation of final inspection punchlist and contract close-out procedures.

### **City of Tracy Recycled Water Project Phase I and Phase II**

#### **City of Tracy Recycled Water Project -Phase 1**

**Project Description** – This grant application to the state is for the funding of Phase 1 of the recycled water project which would build the initial pipeline from the City's Wastewater treatment facility (WWTP) to Holly Sugar Sports Complex. The pipeline is 24" in diameter and approximately 4800 feet long extending the WWTP north and west to the Holly Sugar Sports Park. A map of the Phase 1 facilities is shown in Exhibit 10.

#### **City of Tracy Recycled Water Project Phase 1 Scope of Work**

Tasks 1 through 4 are part of Direct Project Implementation Costs, which are assumed to be 5% of the total project costs.

#### **Task 1 Project Management:**

Project management will consist of the preparation of the work plan for the project, staffing, management of sub consultants, preparation of invoices and other deliverables, and for interactions between the contractor and construction manager and the City as well as development of a quality controls quality assurance plan and its implementation.

## **Task 2 – Labor Compliance:**

The City's standard labor compliance language for all construction contracts is shown below. This task will ensure that these requirements are met. If additional requirements are needed as a result of the grant agreement, then the language below will be altered accordingly.

### **13. Labor requirements.**

13.1. Prevailing Wage. The California general prevailing wage rates determined by the Director of Industrial Relations are made a part of this Agreement. Nothing in the Contract Documents shall be interpreted in a manner conflicting with these rates. See General Provisions Section 9.05 (d), "Prevailing Wage".

13.2. Apprentices. Labor Code Sections 1777.5, 1777.6 and 1777.7 govern the employment of apprentices by Contractor or any Subcontractor. Contractor and any of his Subcontractors shall comply with these Labor Code requirements. Contractor shall have full responsibility for compliance regardless of any other contractual or employment relations alleged to exist. See General Provisions Section 9.05 (f), "Apprentice Program".

13.3. Wage Information. A copy of the general prevailing rates of per diem wages for each craft, classification or type of worker needed to perform the Agreement, as determined by the Director of the State Department of Industrial Relations, are available at the office of the City's Director of Development and Engineering Services, located at Tracy City Hall, 333 Civic Center Plaza. These will be made available to any interested party upon request.

13.4 Hours of Labor. The Contractor shall forfeit, as a penalty, to the City \$50 for each worker employed in the execution of the Agreement by him or by any Subcontractor for each calendar day during which any worker is required or permitted to labor more than 8 hours, in violation of Labor Code sections 1810-1815. See General Provisions Section 9.05 (c), "Hours of Labor".

13.5 Nondiscrimination. Contractor shall afford equal employment opportunities for all persons without discrimination because of race, color, religion, sex, sexual orientation, political affiliation, national origin, ancestry, age, marital status, or physical or mental disability. See General Provisions Section 9.05 (a), "Non-Discrimination".

## **Task 3 – Reporting:**

Task is associated with the reporting requirements that will be defined in the grant agreement. Those requirements have yet to be defined. However, costs assume that monthly progress reports on the construction activities from project initiation to project startup are anticipated. Additionally, as the recycled water use increase at the park

with the construction of the various sports fields, monthly and annual water use numbers, which represent a direct benefit for the project will be available.

#### **Task 4 –Storm Water Pollution Prevention Plan (SWPPP):**

Compliance with local and state-wide storm water requirements will be met by the preparation and execution of a SWPPP. The project has a short construction timeframe (assumed 4 months) so significant SWPPP issues can likely be avoided.

#### **Task 5 – Right of Way Easement:**

South Tracy Blvd to South Holly Drive. There are two future recycled water pipelines anticipated to be in this right of way (ROW), a 36" and the Phase 1 24" pipelines. A 30-foot right of way will be needed for these two lines. The right of way that is anticipated would roughly follow the continuation of Arbor road if it were extended west from South Holly Drive to South Tracy Blvd., as shown in Exhibit 10. A cost of \$50,000 an acre was assumed for the easement, this cost has been used in previous city infrastructure finance plans, such as the Northeast Industrial Area Phase 1 and 2.

#### **Task 6 – Final Design Scope of Work:**

The scope of work outlined in this proposal is defining a project which will be affected by the final reports tied to the work that West Yost, Nolte and RBF are completing at this time (discussed above). It is assumed that there may be some alterations or at least more specifics of the project when those reports are completed. This task would define the scope for the pipeline project based on the findings and recommendation of the City studies that are currently ongoing. An assumed lump sum cost is shown in the budget for this task.

#### **Task 7 – Project Design:**

This proposal assumes that the head on the discharge pumps from the City's Old River Outfall is large enough to push the recycled water 4800 feet to the Holly Sugar Sports Park irrigation pond which is anticipated to be in the southeast corner of the park. Both sites are roughly the same elevation. The construction project has three parts, treatment plant connection, construction of the pipeline, and the crossing of significant utilities, each defined below. Design costs were assumed at 8% of construction + contingency cost.

7.1.1 – The connection point will ultimately feed the Zone A pump station that is shown in Chapter 9 of the West Yost report (Exhibit 3) and would be constructed in Phase II. The Phase I project envisions that a 42" connection will be needed to the City's WWTP out fall. The 42" will feed the future pump station and the 36" and two 24" pipes that will serve the Zone A area. This project is building the initial phase of one of the 24" pipes. This project would construct the 42" "T" in the outfall, and then install a "T" on the 42" to provide a temporary connection to 24" pipe that can be feed by gravity (Stand Pipe) to

the pond at the sports field ½ a mile away. Electrical service will be needed for the pipeline valves and meters. This onsite piping and temporary 24" connection were assumed to cost \$200,000, this was a SWAG.

7.1.2 - Facilities needed at Wastewater Treatment plant –The City is still conducting ongoing studies related to the treatment plant upgrades and the NPDES permit requirements. CH2MHill is providing this service for the City (Exhibit 1). The work completed to date by CH2MHill suggests that turbidimeters are likely on the recycled water system. It is envisioned that when the water does not meet the requirements, the feed to the recycled water system would shut off. The turbidimeters are anticipated to cost \$75,000.

7.1.3 – Each of the three pipelines that ultimately leave the Zone A pump station will have a flow meter installed on them. The Phase I project will install a flow meter on the 24" pipeline with the work at the treatment plant. \$75,000 was assumed for the meter station.

7.2 – 24" Pipeline – 4800 feet. This is a planning level cost estimate for the construction of the 24" pipeline, most of which will be through open ground. A cost of \$130/foot was used in the budget. Design costs are assumed to be 8% of the construction cost plus contingency. West Yost will complete cost estimates for the recycled water facilities as part of the master plan work. Those costs will be available in spring 2011.

7.3 –Bore and Jack under road crossing. There are envisioned to be utility conflicts with the crossing of Holly Drive and Tracy Blvd. Both streets appear to have irrigation facilities within the ROW as well as utility poles. There is also the crossing of a large irrigation ditch approximately halfway through the area where ROW is needed, between the two streets. An additional cost of \$200 per foot and a distance of 240 feet is used budget Phase I numbers for these crossings.

#### **Task 8 – Change of Place of Use Permit:**

The City does not currently have a permit to discharge their treated effluent to any place other than Old River. The permit is needed so that recycled water deliveries to the City's proposed irrigation sites can occur. A cost of \$75,000 is assumed for this effort.

#### **Task 9 – Construction Bid:**

A cost of \$15,000 dollars is assumed for bid period services for Phase I.

#### **Task 10 – Construction:**

Construction will proceed on the project per the assumptions discussed in the design section. There are multiple studies supporting this project that are ongoing. Construction efforts can be defined more clearly once those studies have been completed. The City has existing construction standards for recycled facilities. A 15%



contingency is assumed on these planning level estimates. The contingency is added to cover potential changes in pipe length associated with connection points and or pipe line routing.

### **Task 11 - Construction Management:**

A cost of 7% of the estimated construction cost is assumed to cover the expense of construction management.

### **City of Tracy Recycled Water Project Phase II Scope of Work**

Phase II of the City of Tracy's Recycled Water Project will extend the Phase I 24" pipeline from the Holly Sugar Sports Complex west to Lammers Road and then south on Lammers Road to 11<sup>th</sup> Street where it will connect to existing and planned facilities to serve the Tracy Gateway Business Park and other future development areas. A map of the facilities planned for Phase II is shown in Exhibit 12. Grant funding for Phase II is not being requested at this time.

Twenty-four thousand feet of pipe will be constructed in Phase II. Most of the work will be done in City and County right of way rather than in open field so a cost of \$145 per foot is assumed rather than the \$130 a foot assumed in Phase I. The pipe route has several locations where land or difficult utility crossings exist.

- There is 2,600 feet of a 30 feet-wide easement (ROW) needed between Corral Hollow Road and Nagle Road (a cost of \$50,000 per acre of easement is assumed – easement width is 30 feet).
- Railroad, Byron Hwy (J4), and I205 Crossing all cross at the same location. The distance is 800 feet and it will be accomplished through some type of directional bore. (An additional cost of \$200 per foot is assumed through this area).
- There is the crossing of the irrigation canal just north of 11<sup>th</sup> Street. This last 450 feet of construction will be difficult. (An additional cost of \$200 per foot is assumed through this area).

There is an existing pipe in 11<sup>th</sup> Street between Lammers and Corral Hollow. In addition, the City is planning to install in FY 11/12 recycled water pipeline in 11<sup>th</sup> Street west of Lammers Road (City of Tracy 2010 budget - CIP 74064, Cost: \$1.9 Million). The existing pipe to Corral Hollow Road can connect to the Tracy Sports Complex and Plascencia Fields. The City's current budget also shows the installation of storage and recycled water facilities in the Tracy Gateway development area (CIP 74PP \$15.9 million for FY 14/15). Both of these projects are used as matching funds in the Phase II budget.

With the start-up of the Phase II facilities, the City will be able to serve the two large parks on 11 Street, Tracy Sports Complex, and Plascencia Fields. The budget reflects that \$50,000 will be needed at each of these two parks to convert the irrigation system

from potable to non-potable water service and ensure that cross connections have been eliminated. This irrigation system conversion cost was previously used in the finance plan for the Tracy Gateway Project's water exchange program. Gateway was assumed to have a 30 year build-out, and the first phase of that project is beginning at this time. The \$100,000 assumed to convert both parks will be paid by the City as part of matching funds.

The extension of the 24" pipeline will trigger the construction the Recycled Water System Zone A pump station (23,400 gpm, with TDH 260) at the WWTP as well as the Zone A storage facility, 5 million gallons. Both facilities are defined in the West Yost report (Draft Chapter 9 - Exhibit 3) which will be completed in the spring of 2011.

Phase II will construct the Zone A pump station. The cost estimates assume that a 50' x 50' pump station building (\$200 per ft<sup>2</sup>) will be needed and installed with Phase II. The pump station will ultimately feed three pipelines two 24" and one 36". It is envisioned that each pipe will have a dedicated series of pumps (4 pumps, 3 plus a back-up) 12 pumps total in the station (\$100,000 each). Phase II would install three of the four pumps for the 24" pipeline and the associated electrical work. Phase II will also do the site work, mechanical work, surge protection for ultimate facility. Additional pumps and electrical controls will be put in with future phases of the project. There is a back-up table to Table 7 for Phase II costs that shows the planning level cost assumptions used for the pump station.

Phase II will construct the Zone A storage facilities. The West Yost report calculates that 5 million gallons of storage will be needed for Zone A of the City's recycled water system. These are assumed to be two welded steel above ground storage tanks, each with a capacity of 2,500,000 gallons. A construction cost estimate of \$1 per gallon is used.

Phase II facilities provide the City with the backbone facilities to serve Bright, Catellus, Fillos, Cordes Ranch, I-205 Expansion, Larch Clover, and Byron Berg development areas, all being planned with recycled water facilities. Service to these areas is included in the Phase II recycled water demands, see the West Yost Draft Chapter 9 Figure 9.1 (Exhibit 3). These areas' "on-site" improvements and corresponding costs are being determined by West Yost in their current water master plan efforts. The costs associated with the two construction projects (11<sup>th</sup> Street pipeline and Gateway improvements) and the water use anticipated by the Tracy Gateway Business Park at build-out are used to estimate the "on-site" infrastructure costs (infrastructure cost per acre foot) needed for other City development areas in the Phase II benefit calculations. Each of these development areas assumes a 30-year build-out starting in 2015, except Fillos, which assumes only a 10-year build-out.

The same mark-ups from the Phase I budget for Project Management and Administration, Design, Construction Management are also used in the Phase II budget.

## City of Tracy Recycled Water Project Phases I and II

### **List of Exhibits included in Appendix A**

Exhibit 1	Ch2MHill contract related to WWTP NPDES Compliance
Exhibit 2	West Yost & Associates contract for City of Tracy Water Master Plan
Exhibit 3	West Yost draft Chapter 9 – from Water Master Plan
Exhibit 4	City of Tracy Water Master Plan Project Schedule
Exhibit 5	RBF contract for the environmental work related to City master plan updates
Exhibit 6	Holly Sugar Sport Parks environmental work - City Council staff report on Final EIR
Exhibit 7	Nolte contract design of the Holly Sugar Sports park
Exhibit 8	On-site Irrigation Tech Memo of Holly Sugar Sports Park
Exhibit 9	Irrigation system description for Holly Sugar Sports Park
Exhibit 10	Phase I Facilities Map - Work Plan
Exhibit 11	City Dec 21, 2010 Staff report for grant application work
Exhibit 12	Phase II facilities Map
Exhibit 13	Kennedy Jenks Water Rate Study for the City of Tracy

## **WSID and DPWD Water Supply Enhancement Project**

### **Task 1: Administration**

Administration duties include preparation of invoices and deliverables for compliance with the grant funding agreement. This task also includes monitoring of the grant funding agreement and the budget and ensuring compliance with all requirements of the agreement. Administration costs associated with the labor compliance program, reporting and contracting are included in their respective tasks.

Deliverables: Invoices and other deliverables as required by the grant agreement.

### **Task 2: Labor Compliance Program**

The labor compliance program duties and costs are included in this task. A labor compliance program pursuant to California Labor Code Section 1771.5(b) will be adopted and enforced. The construction contract will require compliance with all prevailing wage provisions of the California Labor Code. The activities include review and submittal of certified payroll documentation from the contractors and bookkeeping activities required to comply with any audit provisions of the grant agreement.

Deliverables: Submission of a Labor Compliance Program and documentation as required by the grant agreement and California Labor Code provisions.

### **Task 3: Reporting**

This task includes the preparation and submittal of quarterly, annual and final reports as required by the grant agreement. Reporting of project progress and budget status along with the various deliverables as described in this work plan will be included in the quarterly reports. All reports will be submitted to the San Luis and Delta-Mendota Water Authority SLDMWA - grant recipient) and the California Department of Water Resources (DWR) as required. All feasibility studies, reports and designs will be made available to the SLDMWA, the State and the participants and stakeholders in the Westside-San Joaquin IRWM.

Deliverables: Quarterly, annual and final reports as specified in the grant agreement.

*Budget Category (b): Land Purchase/ Easement*

### **Task 4: Right-of-Way Acquisition**

It is anticipated that purchase of land will be required for the permanent above ground Intertie facilities that are not located within the existing right-of-ways for the WSID Main

Canal and the DMC. Both construction and permanent easements will also be required for portions of the pipeline from PS-5A to the DMC turnout/head works. The work involved in the acquisition of land and easements is included in this task. Work includes surveying, preparation of legal descriptions and easement documents and all other miscellaneous tasks associated with required land purchase and easement acquisition.

Deliverables: Copies of the land purchase and easement acquisition documents, including legal descriptions and purchase agreements.

*Budget Category (c): Planning/Design/Engineering/Environmental Documentation*

### **Task 5: Assessment and Evaluation**

The environmental assessment and evaluation of the Intertie has been completed and a Negative Declaration was adopted by WSID. As previously mentioned, the final design of the facilities is scheduled for completion by April 2011. The other component of the project included in Phase 1 is the final design, environmental compliance and permitting for the fish screen intake. Currently a feasibility study of the fish screen intake is being prepared and is scheduled to be finalized in January 2011. A copy of the fish screen feasibility study is included in Appendix B.

Deliverables: (1) Final Fish Screen Intake Feasibility Study, (2) final design and bidding documents for the Intertie facilities, and (3) environmental documentation (assumed EIR/EIS) for the fish screen intake.

### **Task 6: Final Design**

Phase 1 of the project includes the final design of the fish screen intake. Final design of the fish screen intake will include plans, specifications and bid documents required to construct the facility. As previously mentioned, the final design of the Intertie facilities is scheduled for completion by April 2011.

Deliverables: Final plans and specifications for the Intertie facilities that are currently about 75 percent complete. Also, final plans and specifications for the fish screen intake.

### **Task 7: Environmental Documentation**

Environmental compliance for the construction and operation of the Intertie has been completed and a Negative Declaration adopted. Phase 1 of this project also includes the environmental compliance work required for the construction and operation of the fish screen intake. This task includes the administrative work required to contract for the preparation of the environmental documentation required for the fish screen intake and the preparation of the environmental document by a consultant to WSID. All required studies identified by the environmental consultant and permitting agencies are included in this task. It is assumed that adoption of an Environmental Impact

Report/Environmental Impact Statement (EIR/EIS) will be required for construction and operation of the fish screen intake.

Deliverables: Approved and adopted CEQA/NEPA document and all supporting studies and documents.

### **Task 8: Permitting**

Permitting for the construction of the Intertie will require a permit from the United States Bureau of Reclamation (USBR) for construction of the Intertie turnout/head works at the DMC and modification of the DPWD delivery at Milepost 31.31 on the DMC. The contractor will be required to obtain all construction related permits as part of their contract with WSID for construction of the Intertie. In addition, permitting for the fish screen intake is included as part of environmental compliance for Phase 1. A Streambed Alteration Agreement (Section 1602 permit) for the construction of the fish screen intake at the mouth of the Intake Canal (diversion point) on the San Joaquin River will be required from the State Department of Fish and Game (CDFG). A California State Reclamation Board Encroachment Permit may also be required if it is determined that the installation of the fish screen intake requires modification of the levee and/or channel of the San Joaquin River. CWA 401 and 404 certification will also be required along with a Rivers and Harbors Act permit. In addition, ESA compliance Section 7 consultation will be required and likely an ESA Section 10 permit.

Deliverables: Permit to construct Intertie turnout/head works from DWR, Streambed Alteration Agreement (Section 1602 permit) for the construction of the fish screen intake from CDFG, a California State Reclamation Board Encroachment Permit, CWA 401 and 404 certifications, Rivers and Harbor Act permit and possibly an ESA Section 10 permit.

*Budget Category (d): Construction/Implementation*

### **Task 9: Construction Contracting**

The work associated with the administration of the construction contract for the Intertie includes advertising for bids, holding a pre-bid contractors meeting, review of proposals, and award of the contract and negotiation of an agreement. Work associated with the administration of the construction contract is included in Task 12.

Deliverables: Copies of the project advertisement, minutes of the pre-bid meeting, proposals received, award letter and a copy of the final construction contract (agreement).

### **Task 10: Construction**

As part of the preparation of the final plans and specifications for the Intertie a schedule of work items will be developed and a bid schedule will be included in the bid

documents. This work has not been completed as of the date of this application but will be completed by April 2011 as part of the final plans and specifications. The following is a condensed description of the work items that will be included as part of the Intertie construction. When the plans and specifications, including the bid documents, are completed a copy will be sent to the DWR as part of this application and the grant agreement.

#### Subtask 10.1 Mobilization and Demobilization

Mobilization includes preparatory work and operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; the establishment of all Contractor's offices, buildings, and other facilities necessary for work on the project; obtaining permits, bonds, and insurance; and all other work and operations which must be performed or costs incurred prior to beginning work on the various contract items on the project site. Demobilization includes removal of all equipment, supplies, personnel, and incidentals from the project at the end of construction.

#### Subtask 10.2 Site Preparation

Site preparation includes clearing the site, removing and disposing of trees, fencing, concrete, asphalt, concrete footings and existing facilities as described on the plans, providing temporary fencing, and all miscellaneous work shown on the plans, described in the specifications, and as necessary to complete the work.

#### Subtask 10.3 Project Construction

Project construction includes all work items as will be described in the schedule of work that will be a part of the construction agreement. These work items will include all construction related work items necessary to complete the construction of the Intertie and will include but not be limited to construction of all buildings, structures, pump stations, pipelines, metering, paving, piping, electrical, instrumentation, control systems, telemetry, landscaping and irrigation, and fencing.

#### Subtask 10.4 Record Drawings, Operation and Maintenance (O&M) Manuals, Start-up and Training

This subtask includes the preparation and submission of record drawing marked-up plans reflecting changes during construction and O&M manuals. Also included is manpower and equipment to assist with start-up and training for the equipment.

*Budget Category (e): Environmental Compliance/Mitigation/Enhancement*

**Task 11: Environmental Compliance/Mitigation/Enhancement**

Phase 1 of the project includes preparation of the environmental documentation for the fish screen intake (Task 7). This task includes implementation of the environmental compliance measures identified in the environmental document that is assumed to be an EIR/EIS. Potential mitigation measures and enhancements will be identified as part of the environmental analysis and permitting work in Tasks 7 and 8. Environmental compliance for the construction and operation of the Intertie has been completed. A Negative Declaration (ND) was adopted by WSID. There were no required mitigation or enhancement measures identified in the ND.

Deliverables: Required mitigation and monitoring plans as identified in the EIR/EIS and the permits for the fish screen intake.

*Budget Category (f): Construction Administration*

**Task 12: Construction Administration includes the following work tasks:**

- Attend preconstruction meeting
- Review shop drawings and submittals
- Respond to requests for information
- Assistance with coordination of schedules with the District and the contractor and his subcontractors
- Construction observation
- Review of Progress and Final Payments
- Review of proposed change orders and any authorized supplemental work
- Review and forward copies of the Operations and Maintenance Manuals furnished by the contractor
- Prepare record drawings based on information provided by the contractor as to changes made to the project during construction